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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/660,196	09/11/2003	Jeremy N. Shapiro	SUN-P9696	5772
	7590 08/07/200 YSTEMS, INC.	7	EXAMINER	
c/o PARK VAU	JGHAN & FLEMING,	LLP	FAROUL, FARAH	
2820 FIFTH ST DAVIS, CA 95			ART UNIT	PAPER NUMBER
			2616	
		·	MAIL DATE	DELIVERY MODE
			08/07/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)	
	10/660,196	SHAPIRO ET AL.	
Office Action Summary	Examiner	Art Unit	
·	Farah Faroul	2616	
The MAILING DATE of this communicat Period for Reply	ion appears on the cover sheet w	th the correspondence address	•
A SHORTENED STATUTORY PERIOD FOR WHICHEVER IS LONGER, FROM THE MAIL - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communica. - If NO period for reply is specified above, the maximum statutor. - Failure to reply within the set or extended period for reply will, Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ING DATE OF THIS COMMUNION (CFR 1.136(a)). In no event, however, may a station. Ty period will apply and will expire SIX (6) MON by statute, cause the application to become AB	CATION. eply be timely filed ITHS from the mailing date of this communicat ANDONED (35 U.S.C. § 133).	
Status			
1) ☐ Responsive to communication(s) filed o 2a) ☐ This action is FINAL. 2b) 3) ☐ Since this application is in condition for closed in accordance with the practice u	☐ This action is non-final. allowance except for formal matt	·	is
Disposition of Claims	•		
4) ☐ Claim(s) 1-25 is/are pending in the appl 4a) Of the above claim(s) is/are w 5) ☐ Claim(s) 1-20 is/are allowed. 6) ☐ Claim(s) 21 and 25 is/are rejected. 7) ☐ Claim(s) 22-24 is/are objected to. 8) ☐ Claim(s) are subject to restriction Application Papers 9) ☐ The specification is objected to by the Ex 10) ☐ The drawing(s) filed on 01 August 2007 Applicant may not request that any objection Replacement drawing sheet(s) including the	vithdrawn from consideration. n and/or election requirement. xaminer. is/are: a)⊠ accepted or b)□ ob n to the drawing(s) be held in abeyar	nce. See 37 CFR 1.85(a).	1(d).
11)☐ The oath or declaration is objected to by	the Examiner. Note the attached	d Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for a a) All b) Some * c) None of: 1. Certified copies of the priority doc 2. Certified copies of the priority doc 3. Copies of the certified copies of the application from the International * See the attached detailed Office action for	cuments have been received. cuments have been received in A ne priority documents have been Bureau (PCT Rule 17.2(a)).	pplication No received in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-03) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	948) Paper No(s	Summary (PTO-413) s)/Mail Date nformal Patent Application 	

1. The following Office Action is based on the amendment filed on August 1, 2007, having claims 1-25 and Figures 1-3.

Drawings

2. The drawings were received on August 1, 2007. These drawings are accepted by the examiner.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 21 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 21 recites the limitation "the apparatus" in lines 3-4. There is no antecedent basis for this limitation in the claim. Applicant claims "a system" in line 1 of the claim, not "an apparatus".

Allowable Subject Matter

Claims 1-20 are allowed.

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5. Claims 22-24 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The indicated allowability of claim 21 is withdrawn in view of the newly discovered reference(s) to Yeager and Francis. Rejections based on the newly cited reference(s) follow.

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* **v.** *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein

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were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 21 and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yeager et al. (US 2005/0086300 A1) in view of Francis et al. (US 5,331,637).

For claim 21, Yeager et al. discloses a subnet administrator (group membership authenticator) configured to receive requests to change the membership of the multicast group (paragraph 502, lines 1-7 wherein a group membership received joining requests from peers)

make a non-member into a Full or SendOnly member of the multicast group (paragraph 504, lines 1-14 wherein the group membership authenticator makes a non-member a Full member);

make a Full or SendOnly member into a non-member of the multicast group (pargraph 510, lines 1-8 wherein a Full member membership is cancelled and the Full member in turned into a non-member of the multicast group)

For claim 21, Yeager discloses the entire claimed invention except for a network node coupling the apparatus to a network; a subnet manager configured to update network nodes' routing tables when the routing tree is modified in response to a change in membership of the multicast group

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Francis, from the same or similar group of endeavor, discloses updating the network node's forwarding tables in response to a change in the multicast group membership (see table in Figure 4 and column 4, lines 41-62).

Thus, it would have been obvious to someone of ordinary skill in the art to combine the network management method of Francis with the communication network of Yeager at the time of the invention. The network management method of Francis is implemented into the communication network of Yeager by updating the routing tables after group membership status change. The motivation to combine the network management method of Francis with the communication network of Yeager is that it provides an effective management method of network nodes in a multicast network.

For claim 25, Yeager discloses the entire claimed invention except for the network node is one of channel adaptor or network switch

Francis, from the same or similar field of endeavor, teaches a core node (router 107 in Figure 6) coupling the apparatus to a network.

Response to Arguments

8. Applicant's arguments with respect to claims 21-25 have been considered but are moot in view of the new ground(s) of rejection. Claims 1-20 are allowed. The objections to claim 21 are withdrawn because applicant's arguments are persuasive.

Conclusion

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9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Shimizu et al. (US 2006/0168104 A1) is cited to show a system pertinent to applicant's invention. Shimizu discloses a digital contents distribution system.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Farah Faroul whose telephone number is 571-270-1421. The examiner can normally be reached on Monday - Friday 6:30 AM - 4 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Firmin Backer can be reached on 571-272-6703. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

F. Faroul

BRIAN NGUYEN
PRIMARY EXAMINER

8/6/07